



MedAssist AI

AN AI POWERED SYMPTOM ANALYSIS ASSISTANT

Group 4

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THE PROBLEM

Healthcare is failing millions of Kenyans.

- 12% of deaths in Kenya are due to respiratory diseases.
- Only 1 doctor per 16,000 patients (WHO recommends 1:1,000).
- Patients need 2–3 costly visits before the right diagnosis.
- 9,500+ preventable deaths each year from delayed testing.

The result: delayed care, wasted money, and lost lives.



THE HUMAN COST



Meet Amina.

She's a single mother in rural Turkana.
She visits the clinic 3 times for her coughs,
spends half her monthly income.

By the time she gets a chest X-ray, she's
hospitalized with pneumonia.

This story repeats hundreds of times
every day in Kenya.

It's not a lack of medicine, it's a lack of
diagnostic access.

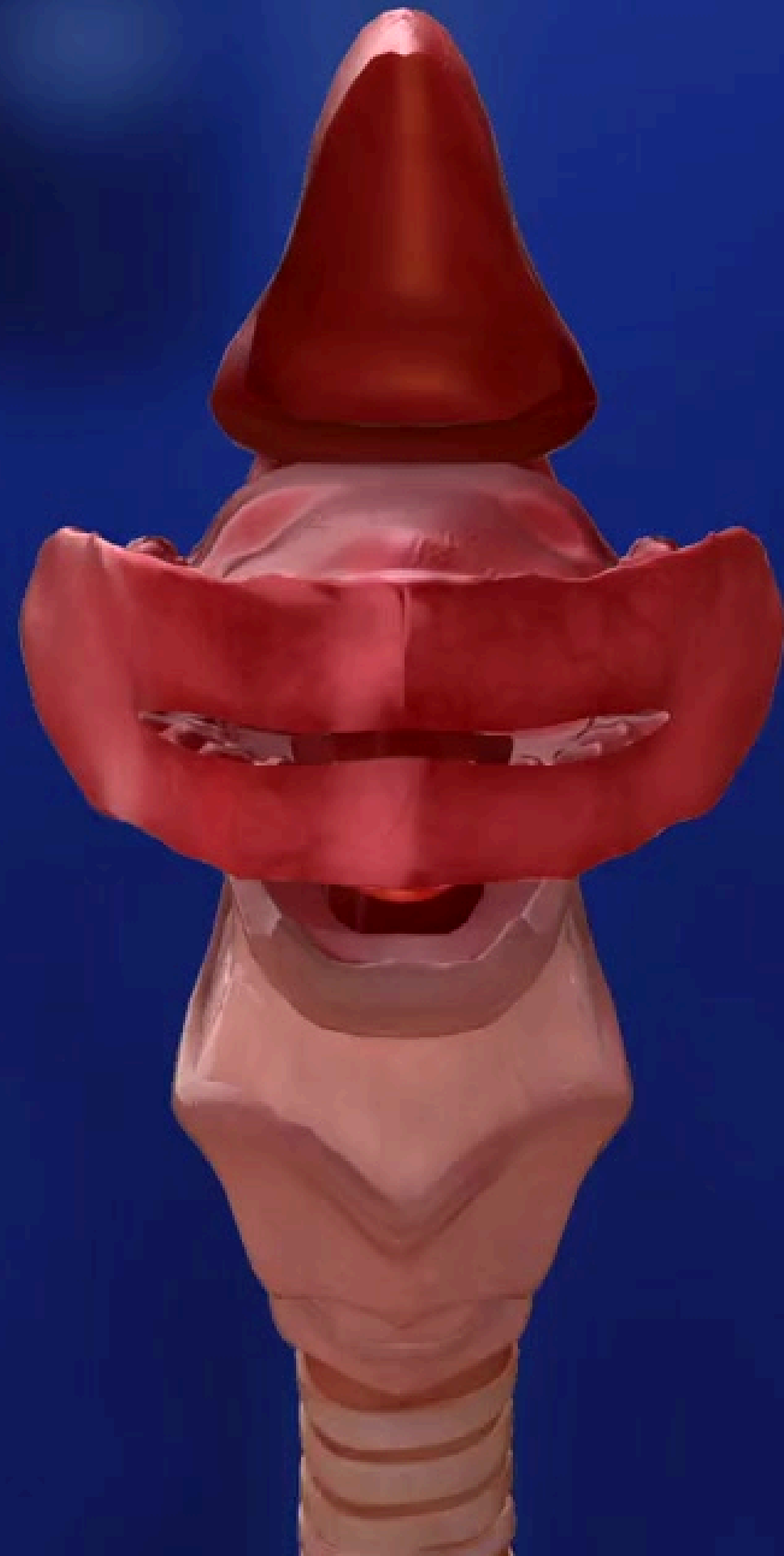
THE SOLUTION

Introducing the Respiratory Diagnostic Assistant (RDA)

An AI powered pre consultation tool that helps healthcare workers:

- Instantly assess symptoms
- Predict disease likelihood (TB, pneumonia, asthma, COPD)
- Recommend appropriate tests or referrals
- Work offline on low cost smartphones

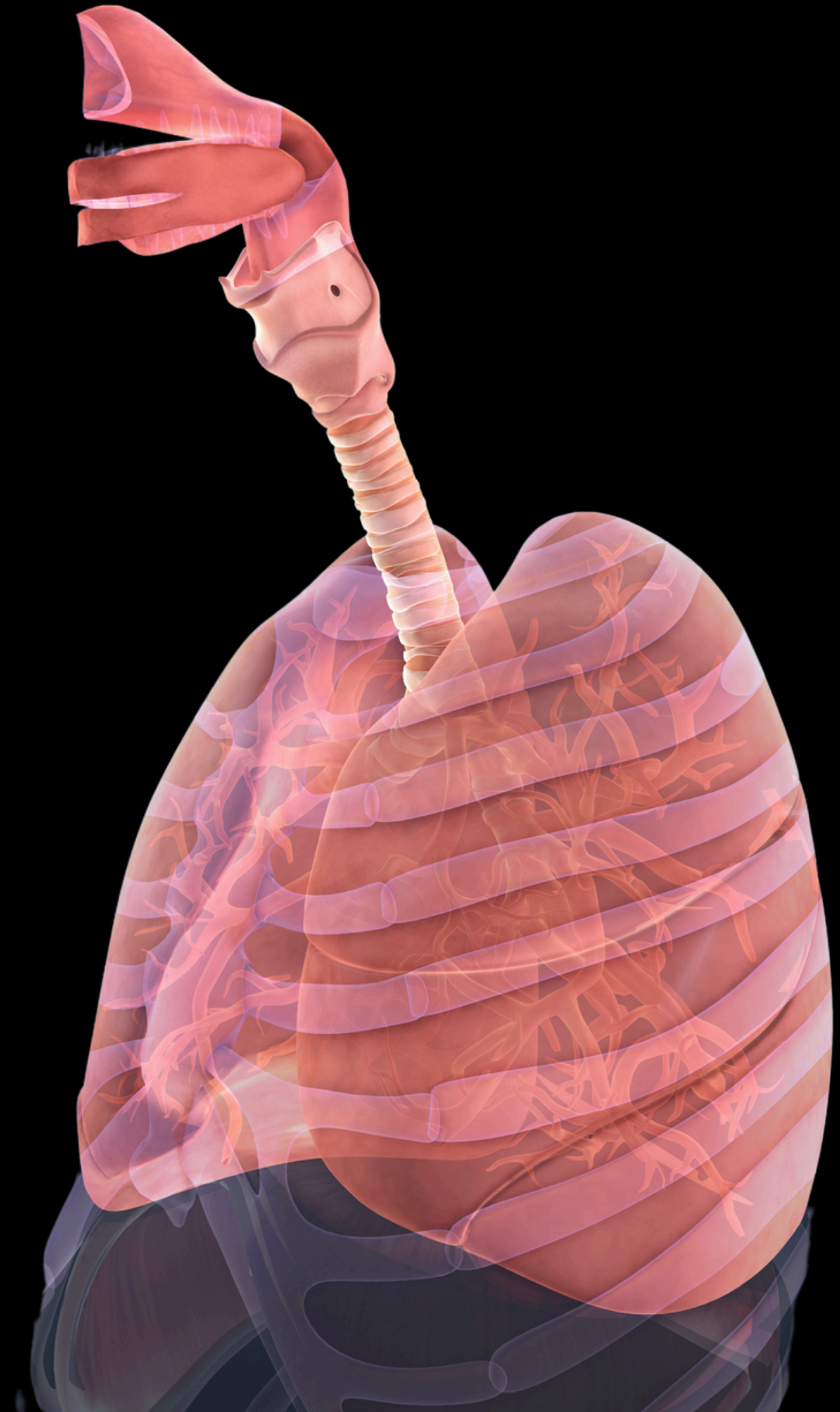
💡 Think of it as a “digital doctor’s assistant” for the frontline.



WHY IT MATTERS

- Cuts diagnostic time from 8 weeks → 1 week
- Reduces patient costs by up to 50%
- Frees clinicians to focus on complex cases
- Reduces unnecessary antibiotic prescriptions by 40–50%
- Prevents 12,000–15,000 hospital admissions annually

 Faster, cheaper, smarter healthcare for everyone.



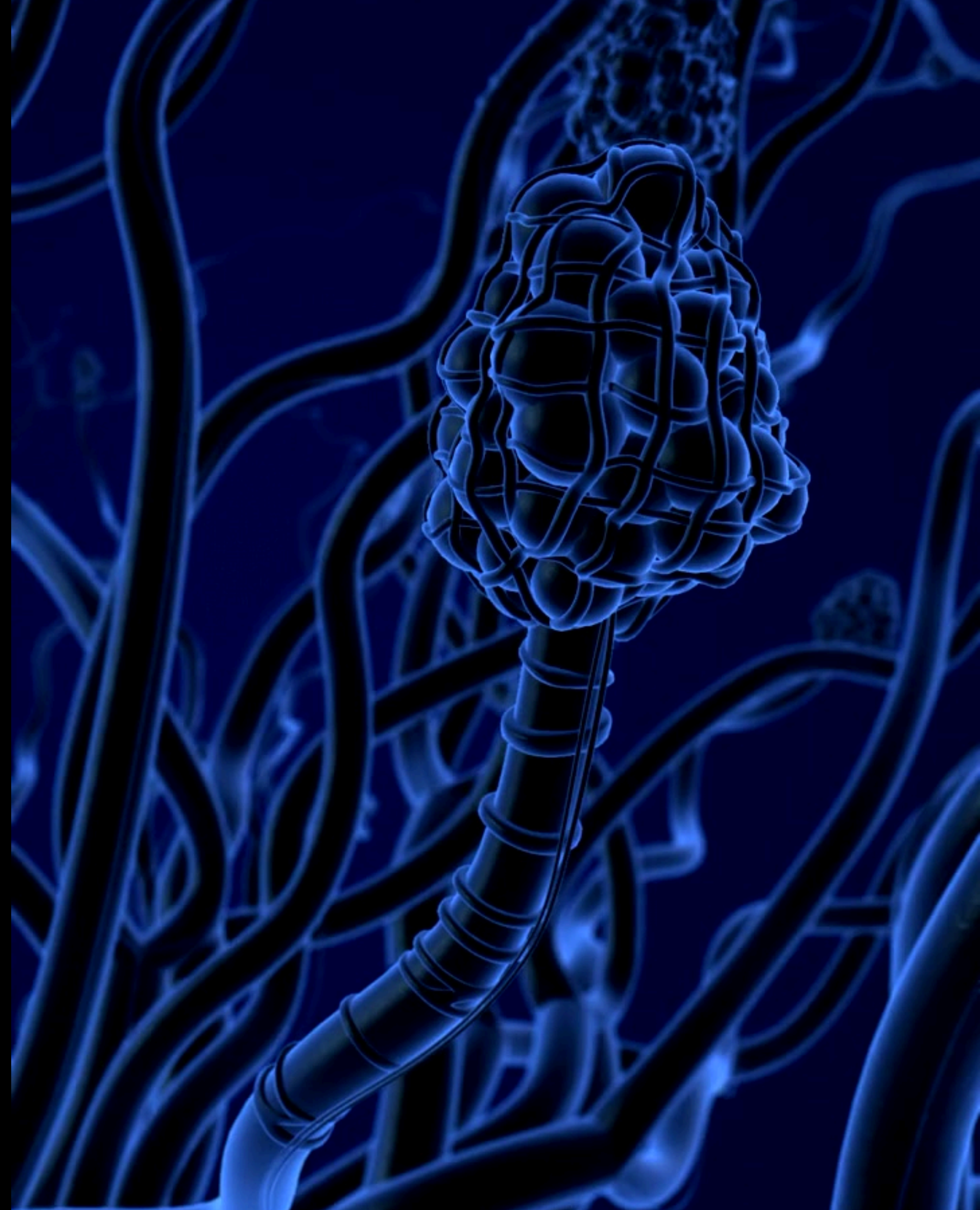
MARKET OPPORTUNITY

Kenya alone:

- 12 million annual respiratory consultations
- KES 19.6 billion spent out of pocket each year
- 2.3 million people pushed below the poverty line by respiratory illness costs

The opportunity:

- 💰 KES 11.5+ billion in annual savings potential
- 💡 Expansion potential across Sub Saharan Africa



HOW IT WORKS

1. Patient or health worker inputs symptoms on phone/tablet
 2. AI model analyzes pattern against verified clinical data
 3. Outputs:
 - Risk level
 - Probable diagnosis
 - Recommended test or action
 4. Clinician confirms → orders test → starts treatment
- ✓ Works offline, multilingual, data-light (<100KB)



WHO BENEFITS

Stakeholder Benefit

Patients- Early diagnosis, lower cost, faster recovery

Clinicians - Less burnout, smarter test ordering

Health Facilities - Efficiency + 20% more patients served

Government & NGOs - UHC progress, equity, cost savings

💪 Everyone wins when diagnostics become intelligent.



COMPETITIVE ADVANTAGE

AI-guided pre screening
Works offline on any phone
Evidence-based recommendations
National policy alignment

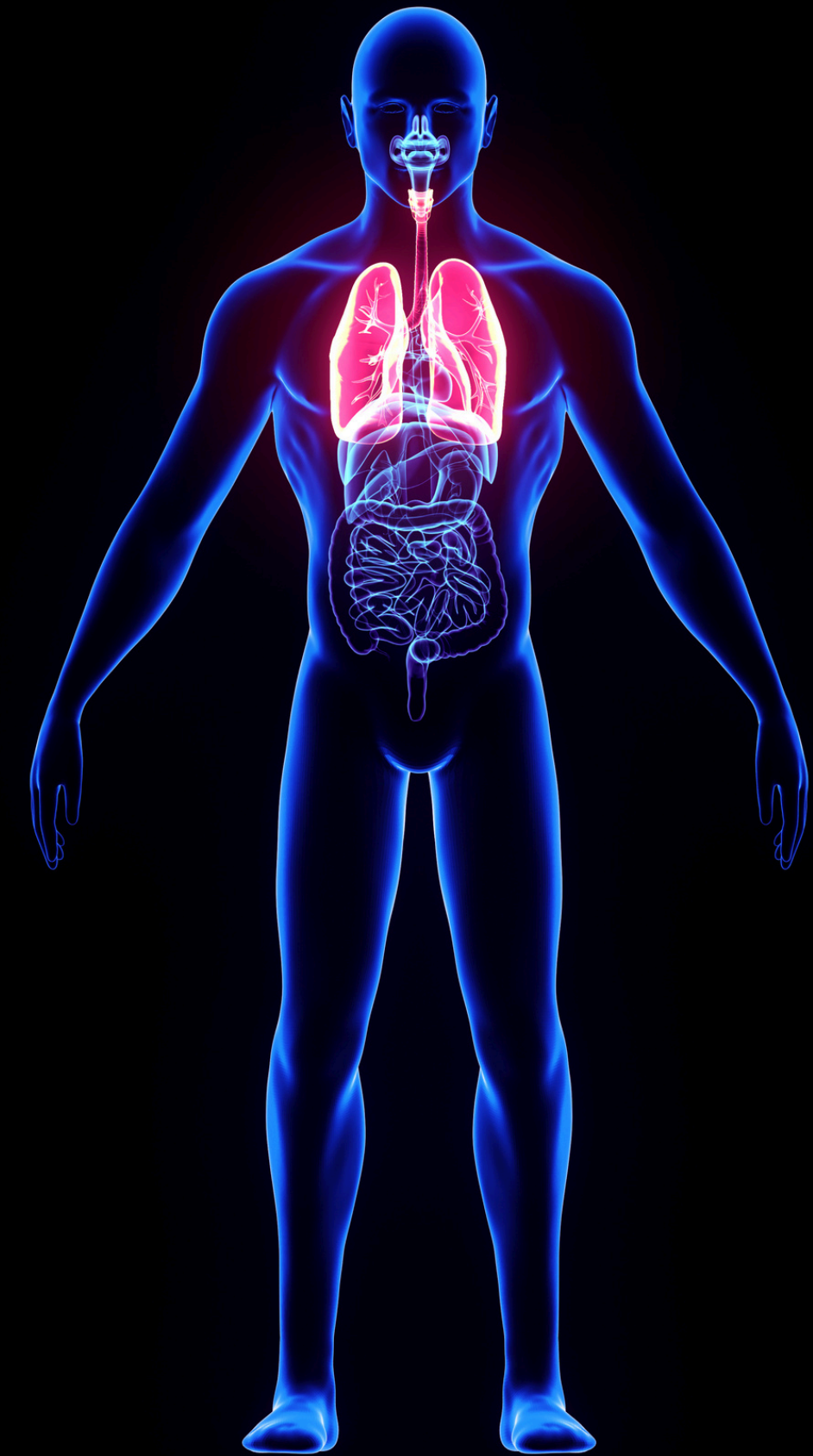


“Every Kenyan, from Nairobi to Turkana,
deserves a fair chance to breathe.”

With AI, we can make that possible.

Join us in building a future where early
diagnosis is not a privilege, but a right.

 Health equity, powered by
intelligence.



An anatomical illustration of a human torso, focusing on the respiratory system. The lungs are depicted in a reddish-pink color, showing the bronchial tree and pulmonary vessels. The trachea is visible in the center, leading down to the lungs. The rib cage and spine are shown in a translucent blue color, providing a clear view of the internal organs. The overall background is a dark blue gradient.

Thank You

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